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ITEM NO. 1-1

## INDEX

HEADQUARTERS MARS (ARMY)	WASHINGTON 25, D. C.
Effective: Ø1ØØ1Z Octo	
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Signal operation instructions listed	below will govern the
operation of all Military Affiliate Radio S	ystem (MARS) – Army nets
GENERAL	
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OFFICIAL:	
$\alpha  \alpha \not\in$	
James Udong	
JAMES A. LONG	
Major, Signal Corps	
Chief, MARS-Army	



ITEM NO. 1-1

DISTRIBUTION "S"

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## ITEM NO. 2-1

## DISTRIBUTION "S"

## HEADQUARTERS MARS (ARMY)

## WASHINGTON 25, D. C.

## Effective: Upon Receipt

## Distribution of this SOI will be as follows:

	No. of Copies
Chief, MARS (Army)	2
MARS Director, First Army	3
MARS Director, Second Army	3
MARS Director, Third Army	3
MARS Director, Fourth Army	3
MARS Director, Fifth Army	3
MARS Director, Sixth Army	3
MARS Director, AFFE	2
MARS Director, USARCARIB	2.
MARS Director, USARAL	2
MARS Director, USARPAC	2
MARS Director, EUCOM	2
MARS Director, USFA	2
Each MARS-Army Member	1
Chief, WARS (Air Force)	2

DISTRIBUTION "S"	ITEM NO. 2-1	Page 1 of 1

## ITEM NO. 3-1

# GENERAL COMMUNICATION INSTRUCTIONS

## HEAD UARTERS MARS (ARMY)

WASHINGTON 25, D. C.

Effective: Upon Receipt

# 1. GENERAL

- To provide further training in military communications this a. . Signal Operation Instructions (SOI) has been prepared by MARS Headquarters .
- This SOI supersedes SIG 439-1, Communication Instructions, b. MARS-Army, 1 August 1950 which will be destroyed by burning. No report of destruction is required.
- New items and revisions of existing items take effect as indicated in the heading of each item. At such time, previous items are superseded and will be destroyed by burning. A new Index (Item 1-()) will be issued whenever new items or revisions are furnished. 2. CLASSIFICATION OF MESSAGES

Messages handled via MARS will normally be UNCLASSIFIED.

## 3. RADIO SERVICE

a. Radio procedure will be in accordance with ACP-124 and ACP-125, which cover radiotelegraph and radiotelephone procedure, respectively. The appropriate ACP will be issued to MARS members actively engaged in MARS training.

ITEM NO. 4-1

#### OFFICIAL TIME

## HEADQUARTERS MARS (ARMY)

WASHINGTON 25, D. C.

Effective: Upon Receipt

- 1. The 24-hour clock system will be used for expressing time within MARS (Army). Time is expressed by means of a six-figure group of numerals, the first two numerals expressing the day of the month and the next four the clock time, followed by a time zone suffix letter. The time zone suffix letter is obtained as outlined in paragraph 3. When a message is referred to by its time of origin, the method of expressing such time will be exactly as presented in the original message.
- 2. GCT (Greenwich Civil Time) sometimes referred to as "Z Time" will be used in both the heading and text of the following:
  - a. Messages to the Department of the Army.
  - b. Messages to the U. S. Navy.
  - c. Messages which cross time zones.
- 3. Local time may be used in all messages other than those listed in paragraph 2 above. Its variation from GCT is indicated by suffix letters as follows:

HOURS FAST: 5 7 8 9 10 11 12  $\mathbf{z}$ В C D Ε F G Н Ι K L M HOURS SLOW: 0 1 2 4 6 3 5 7 8 9 10 11 12 P Q R S Т U X Y

ITEM NO. 5-1

#### MEMBERSHIP

## HEADQUARTERS MARS (ARMY)

WASHINGTON 25, D. C.

Effective: Upon Receipt

## 1. GENERAL

- a. Membership in the Military Affiliate Radio System (MARS) is open to any individual (including retired personnel) of the military service, Army Reserve, National Guard of the United States, or Reserve Officers Training Corps (ROTC) who possesses a valid amateur radio operator license issued by the Federal Communications Commission or under regulations of an overseas commander.
- b. Non-military, FCC licensed amateur radio operators over 21 years of age who possess a station in operation are eligible for membership.

## II. ENROLLMENT

Application for membership will be submitted on DD Form 630 to the nearest MARS Director. Final approval of all applications is made by Chief, MARS (Army).

### III. CERTIFICATES

a. A MARS certificate or other suitable document evidencing membership will be issued to the member.

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ITEM NO. 5-1

MEMBERSHIP

## HEAD WARTERS MARS (ARMY)

WASHINGTON 25, D. C.

#### V. REINSTATEMENT

Any amateur who has been dismissed from MARS may, upon written request, be reinstated, provided sufficient justification is furnished as to why he should be considered eligible for reinstatement.

#### VI. TRANSFERS

- a. Any member who is transferred or who moves his station permanently from one Army Area to another will initiate a letter to Army MARS Director of the area he is leaving requesting termination of his MARS responsibilities in that area and transfer of his MARS records to the area where he is relocating.
- b. The Army MARS Director of the area where the member is relocating will notify the member when transfer of records has been completed and furnish information about MARS operation in the new area.
- c. If a new call sign and MARS certificate are required, they will be issued by Chief, MARS (Army) upon notification that a new FCC call sign has been assigned.

## VII. MARS-NOVICE

a. A letter of authorization will be issued to MARS-Novice members in lieu of a MARS certificate. This authorization terminates when the FCC Novice Class License expires.

DISTRIBUTION "S"

ITEM NO. 5-1

Page 3 of 4

RESTRICTED
Security Information

## SIGNAL OPERATION INSTRUCTIONS TRAINING

ITEM NO. 10-1

## AUTHENTICATION SYSTEMS

HEADQUA	RTERS	MARS (	(ARMY)	)

WASHINGTON 25, D. C.

Effective: Upon Receipt

#### GENERAL

1. Authentication systems are used whenever there is doubt as to the identity of any stations in a net. A simple authentication system is described in this item. Authentication tables are contained in Item No. 11-() of this SOI. This system will be used for training purposes only. Members should <u>not</u> discuss the operation of the system over the air.

## INSTRUCTIONS

2. a. Sample table appears below:

Α

В

C X A C Y R B Z V S D U T O W E P L K J M F H G N I Q

n

E

- b. Example:
  - (1) Test Element: CP
- (2) Locate C in left-hand column; find P in row C; take letter to right of P which is L; the reply to authenticator CP is L.

DISTRIBUTION "S"

TTEM NO. 10-1

Page 1 of 2



ITEM NO. 11-1

## MARS AUTHENTICATION TABLE

HEADQUARTERS MARS (ARMY)

WASHINGTON 25, D. C.

Effective: Ø1ØØØ1Z October 1953

A	G	U	N	A	Z	L	I	P	В	D	F	Н	S	Ĵ	0	X	C	M	K	Y	E	R	T	W	V	Q
В	Z	_S	M	В	0	V	Y	A	D	Н	J	Ī	L	F	W	R	N	Ğ	C	Q	K	P	Ū	X	E	T
C	W	V	F	N	K	Z	A	D	L	0	M	В	Ÿ	Ū	T	E	Ī	Н	S	C	P	Ų.	R	J	G	X
D	$\underline{z}$	0	P	M	Y	A	N	В	Ĵ	F	R	Н	C	K	U	T	Ġ	Ī	X	Q	W	L	V	E	S	D
E	D	Z	W	L	X	В	E	V	C	М	T	K	P	R	Ι	F	Н	A	N	S	Y	G	0	Q	Ū	J
F	A	T	E	J	S	C	Ü	В	N	G	W	I	Z	D	Y	K	R	М	L	Λ	Н	X	0	Q	F	P
G	N	Y	Z	F	D	Ā	E	( <sub>Q</sub>	I	M	Н	R	W	J	S	L	K	0	V	X	Ü	T	G	В	Ċ	P
H	$\mathbf{z}$	Q	E	L	U	S	K	M	T,	J	W	G	V	D	0	C	Ñ	В	A	Н	F	X	P	Ι	Ÿ	R
I	<u>B</u>	T	G	Ų	0	M	Ε	A	K	H	W	L	Ι	F	V	J	S	N	Y	C	D	P	Z	Ū	$\bar{\mathbb{R}}$	X
J	Ō	M	N	V	F	R	T	В	Q	D	J	K	W	Y	G	A	L	P	Ī	Ū	H	Z	C	Ē	X	S
K	N	D	0	Z	F	M	A	L	T	G	L	C	Į,	Q	Ÿ	Ü	R	K	A	W	X	Ī	E	B	H	Š
L	<u>A</u>	Ĵ	G	N	I	M	W	Q	U	В	R	F	Ç	0	Z	P	S	X	H	V	T	L	Ÿ	K	Ē	Ď
M	В	Z	E	Q	X	D	A	T	Ú	L	K	N	Н	Y	S	Ģ	W	C	F	0	V	M	R.	Ť	J.	P
N	F	A	Q	В	U	L	T	G	7,	M	K	J	P	D	W	X	H	C	E	Ń	S	0	v	R	Ī	Ÿ
0	L	R	W	0	M	G	A	U	F	Y	D	S	T	Ĵ	В	H	C	V	E	Ñ	Ī	Q	$\overline{z}$	P	$\bar{\bar{\mathbf{x}}}$	K
P	N	L	W	C	M	H	0	P	s	Z	ં	J	R	Ī	В	F	T	D	Ū	E	K	Ā	X	G	Ÿ	V
Q	H	I	Ö	N	M	T	C	K	Ā	Z	S	D	E	B	X	W	J	R	P	U	F	Q	L	V	<del>G</del>	Ÿ
R	N	Α	C	M	I	K	V	В	Ū	W	E	L	0	Z	G	J	X	Y	T	R	Q	P	F	Ď	H	ŝ
S	M	U	W	0	В	E	A	Y	H	Q	K	X	J	D	$\overline{z}$	G	R	F	Ċ	L	P	S	N	Ŧ	Ÿ	Ť
T	N	A	K	M	V	Н	U	F	Y	E	5	C	Ī	Р	W	0	T	R	L	Ğ	Q	J	7.	X	В	<u>ה</u>
U	A	P	T	Х	Z	H	V	В	W	K	M	E	I	L	R	N	D	G	Q	ō	Ċ	J	Ÿ	F		ī
A	N	T	I	W	В	Y	V	C	K	Q	Ū	J	R	D	0	S	L	C	E	P	X	H	M	7.	$\frac{\mathcal{Z}}{A}$	F
W	A	F	M	D	L	Ū	Z	Р	Y	G	X	Q	Ŝ	Ŕ	B	0	J	Ť	N	W	Ï	Ē	V	K	H	Ĉ
X	W	E	A	Р	C.	0	K	D	L	V	J	H	T	U	N	В	Х	Û	M	R	Ī	F	Z	S	G	Ÿ
Y	Q	T	Z	A	J	F	U	G	C	0	D	Y	L	P	M	S	R	٧	Ε	K	Н	N	X	Ī		<del>I</del> B
Z	0	C	G	V	S	W	D	Z	Y	X	R	L	A	I	U	Q	H	K	B	N	Ĵ	E	F			P
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## ITEM NO. 12-1

#### MARS CIPHER SYSTEM

## HEADQUARTERS MARS (ARMY)

WASHINGTON 25, D. C.

Effective: Upon Receipt

- 1. The cipher system outlined in this item may be used on MARS nets for training purposes. Four lessons on the use of cipher systems have been prepared and distributed to MARS members by separate correspondence.
- 2. This cipher system is authorized for training purposes, subject to the following provisions:
- a. The system offers practically no security and can be easily deciphered.
- b. Traffic enciphered in this system will be confined to unclassified drill or training traffic. Use of this system for official military traffic or personal messages is not authorized.
- c. Under no conditions will this system be used to encipher classified information.
- d. Each enciphered message will include the following phrase within the text: "PAREN MARS DRILL MESSAGE PAREN". This phrase will not be enciphered.
  - e. The system will be used only on MARS frequencies.
- 3. Current MARS Cipher Table will be contained in Item No. 13-( ) of this SOI.

## ITEM NO. 13-1

#### MARS CIPHER TABLE

## HEADQUARTERS MARS (ARMY)

WASHINGTON 25, D. C.

Effective: Ø1ØØØ1Z October 1953

PLAIN ABCDEFGHIJKLMNOPQRSTUVWXYZ CIPHER TUVWXYZABCDEFGHIJKLMNOPQRS

Effective: Ø1ØØØ1Z January 1954

PLAIN A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

CIPHER Y Z I C E B R G A D F H J K L M N O P Q S T U V W X

Effective: Ø1ØØØ1Z April 1954

PLAIN A B C D E F G H I J K L M N O P Q R S T U V W X Y Z CIPHER U V W X Y Z P O L K A D T B C E F G H I J M N Q R S

Effective: 010001Z July 1954

PLAIN A B C D E F G H L J K L M N O P Q R S T U V W X Y Z

CIPHER O Q U V W X Y Z S H I N P L A T E R B C D F G J K M

ITEM NO. 21-1

#### RADIO CALL SIGNS

## HEADQUARTERS MARS (ARMY)

WASHINGTON 25, D. C.

Effective: Upon Receipt

- 1. Call sign assignments are made by Chief, MARS (Army).
- 2. Assignments are based on the FCC call sign of the station or individual. Within the continental limits of the United States, the prefix "W" is changed to "A" and the prefix "K" is changed to "AA". Similar assignments are made to overseas stations.
- 3. When a member moves from one call area to another, his MARS call sign remains unchanged until the FCC call sign is changed. The portable suffix will not be used on MARS frequencies. Stations operating mobile on MARS frequencies are not required to give their location or indicate mobile operation unless requested to do so by the NCS.
- 4. A list of Amateur, MARS-Air Force and MARS-Army prefixes is contained in Item No. 24-( ) of this SOI.

DISTRIBUTION "S"

ITEM NO. 21-1

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## ITEM NO. 22-1

## RADIO FREQUENCIES

## HEADQUARTERS MARS (ARMY)

WASHINGTON 25, D. C.

Effective: Upon Receipt

- 1. MARS radio frequency assignments are made by Chief, MARS (Army).
- 2. The following are Army and Air Force Shared Frequencies:

FREQUENCY	POWER INPUT	EMISSION
3497.5 kc	1000 watts	1A1, 1.1F1
6997.5 kc	1000 watts	1A1, 1.1F1 '
14405.0 kc	1000 watts	1A1, 1.1F1, 3A3, 6A3
20994.0 kc	1000 watts	1A1, 1.1F1, 6A3, 4A4
27994.0 kc	1000 watts	1A1, 1.1F1, 6A3, 4A4

- 3. 14405 kc and 20994 kc are controlled by Headquarters Station WAR during Army time.
- 4. 27994 kc is available for use during Army time without restrictions.

  Army time is: 0001-0100Z, 0300-0500Z, 0700-0900Z, 1100-1300Z, 1500-1700Z, 1900-2100Z, 2300-2400Z, daily.
- 5. 3497.5 kc and 6997.5 kc assignments are contained in Appendix "A" to this item.
- 6. MARS-Army frequency assignments are contained in Appendix "B" to this item.

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DISTRIBUTION "S"	ITEM NO. 22-1	Page 1 of 2
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## 3497.5 KC

MONDAY:	Ī	<u>11</u>	<u>III</u>	IV	<u>v</u>	ĀĪ
0001-0100Z			F R E	E	-	
0200-0300Z			VIRGINIA	RATT	NET	
0400-0500Z			F R E	E		
0600-0700z	x		x			
0800-0900Z		x	-	x		
1000-1100Z					x	x
1200-1300Z	x		x		x	
1400-1500Z			mars/e n	ET		
1600-1700Z	x		×		x	
1800-1900Z		x	• • • • • • • • • • • • • • • • • • • •	x		x
2000-2100Z	x			x	×	
2200-2300Z		x	x			×

## 6997.5 KC

TUESDAY:	Ī	II	<u>III</u>	ĪĀ	Ā	ĀĪ
0100-0200Z			WAR/AIR	BROADCA	AST	
0300-0400z					x	x
0500-06002	x		x			
0700-0800Z		x		х		
0900-10002					x	x
1100-12002	x		x		x	
1300-1400Z		x		x		x
1500-1600Z			MARS/A N	ET		
1700-1800Z			MARS/E N	ET		
1900-2000Z		x		x		x
2100-2200Z	x		x		x	
2300-24007	x		x			

APPENDIX "B" TO ITEM NO. 22-1 Page 1 of 1

### MARS-ARMY FREQUENCIES

EFFECTIVE: 1 September 1953

FREQUENCY	POWER INPUT	EMISSION	Ī	<u>11</u>	<u>III</u>	īā	$\overline{\Lambda}$	<u>VI</u>	REMARKS
2220.0	150	1A1, 3A3, 6A3, 1.1F1	В				С		
2258.0	150	1A1, 3A3, 6A3, 1.1F1				В		С	
2308.0	150	1A1, 3A3, 6A3, 1.1F1		C			В		
2360.0	150	1A1, 3A3, 6A3, 1.1F1			C		В		
3237.0	150	1A1, 3A3, 6A3, 1.1F1	A			A			
3245.0	150	1A1, 3A3, 6A3, 1.1Fl			Α				
3275.0	150	1A1, 3A3, 6A3, 1.1F1		A				A	
3289.0	150	1A1, 3A3, 6A3, 1.1Fl					A		
4020.0	150	1A1, 3A3, 6A3	В		C		В	C	
4025.0	600	1A1, 3A3, 6A3	C	В	D	C		В	
4820.0	150	lAl				,	A		
5302.5	150	1A1, 3A3, 6A3, 1.1F1		C	В	A	В	C	
5760.0	150	1A1, 3A3, 6A3, 1.1Fl					C	В	

NOTE: Times are GCT. Use of 1.1Fl requires prior approval of Chief, MARS (Army). LEGEND:

APPENDIX "B" TO ITEM NO. 22-1 Page 1 of 1

A - Assigned 24 hours daily B - Assigned odd hours daily

C - Assigned even hours daily

D - Florida, Mississippi and Alabama only, even hours daily

## ITCM NO. 23-1

## RADIO NETS

## HEADQUARTERS MARS (ARMY)

WASHINGTON 25, D. C.

Effective: Upon Receipt

## 1. MARS/A NET (CW)

Headquarters	Call Sign
MARS, Army (NCS)	WAR
First Army (Alt NCS)	A2USA
Second Army	AZUĘA
Third Army	A4USA
Net Call Sign	WAR/A
Frequency	6997.5 kc
Time	1500-1600Z, daily
II. MARS/B NET (CW and PHONE)	

## I

<u>Headquarters</u>	Call Sign		
MARS, Army (NCS)	WAR		
Fourth Army (Alt NCS)	A5USA		
Fifth Army	A9USA		
Sixth Army	A6USA		
Net Call Sign	WAR/B		
Frequency	14405 kc		
Time	1700-1800Z, daily		

ITEM NO. 23-1 Page 1 of 5 DISTRIBUTION "S"

## ITEM NO. 23-1

## RADIO NETS

## HEADQUARTERS MARS (ARMY) WASHINGTON 25, D. C. V. MARS/E NET (RATT) Headquarters Call Sign MARS, Army (NCS) WAR First Army A2USA Second Army A3USA Net Call Sign WAR/E Frequency 3497.5 kc Time 1400-1500Z, daily MARS/F NET (RATT) VI. Headquarters Call Sign MARS, Army (NCS) WAR Third Army A4USA Fifth Army A9USA WAR/F Net Call Sign 6997.5 kc Frequency

Time

1700-1800Z, daily

## ITEM NO. 23-1

## RADIO NETS

## HEADQUARTERS MARS (ARMY)

WASHINGTON 25, D. C.

IX. MARS/I NET (PHONE)

Headquarters

Call Sign

MARS, Army (NCS)

WAR

Second Army

A3USA

Net Call

WAR/I

Frequency

148.01 mc

Time

24 hours per day

NOTE: MARS stations in Washington area equipped to operate on this frequency are authorized to contact WAR or A3USA.

ITEM NO. 24-1

## PREFIX LIST

HEADQUARTERS MARS (ARMY)		WASHINGTON 25, D. C.			
	Effective: Upon Receipt				
COUNTRY OR AREA		AMATEUR	MARS-AF	MARS-ARMY	
1.	Alaska		KL7	AKl	AL7
2.	Aleutians		KL7	AK2	AL7
3.	Argentina		m	AH4	<del></del>
4.	Austria		OE13	AJ7	AE6
5.	Azores		CS3	АJØ	
6.	Bernuda		VP9	AH2	epp men dikir
7.	Bolivia		CP	AH3	
8.	Brazil		PΥ	AH3	
9.	British Isles		G	AJl	
10.	Canal Zone		K25	ан6	AC5
11.	Chile		CE	AH4	<del></del>
12.	Columbia		HK	AH5	
13.	Costa Rica		<b>T</b> I	AH5	<u> 1847 - 1944</u>
14.	Cuba		CM, CO	AH2	acø
15.	Dominican Republic		HI	AH2	<b></b>
16.	East Africa (Area (	Coverage)		AJ4	AE4
17.	Ecuador		HK	AH5	
18.	France		F	AJ2	AE7

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DISTRIBUTION "S"

ITEM NO. 24-1

## PREFIX LIST

HEADQUARTERS MARS (ARMY)			WASHINGTON 25, D. C.	
COUNTRY OR AREA		AMATEUR	MARS-AF	MARS-ARMY
37.	Midway Island	км6	AJ3	
38.	Morocco	CN8	AJ5	
39.	Newfoundland & Labrador	VO	AJ9	<del></del>
40.	Nicaragua	YN	AH5	
41.	Norway	LA	AJ8	
42.	Okinawa	KR6	AI2	AD2
43.	Paraguay	ZP	AH3	
44.	Peru	OA	AH4	
45.	Philippine Islands	מע	AI4	AD3
46.	Puerto Rico & Virgin Islands	KP4, KV4	AH2	AC4
47.	Salvador	YS	AH5	
48.	Sweden	SM	AJ8	
49.	Turkey	TA	AJ6	AE3
50.	United States	W & K	AF	A & AA
51.	Uruguay	CX	AH3	
52.	Venezuela	YV	AH5	
53.	West Africa (Area Coverage)		AJ5	

ITEM NO. 24-1

DISTRIBUTION "S"

E13622

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ITEM NO. 25-1

#### RADIOTELEGRAPH PROCEDURE

## HEADQUARTERS MARS (ARMY)

WASHINGTON 25, D. C.

Effective: Upon Receipt

#### 1. GENERAL

The following basic rules are essential to the operation of an efficient radiotelegraph circuit:

- a. No transmission will be made which has not been authorized by proper authority. MARS members are considered proper authority to originate and transmit traffic within their scope of operation.
  - b. The following practices are forbidden:
    - (1) Violation of radio silence, whenever imposed.
    - (2) Excessive tuning.
    - (3) Use of other than authorized prosigns.
    - (4) Profane, indecent or obscene language.
- (5) Exceeding the specific power ratings placed on MARS frequencies.
  - c. The following practices will be avoided:
- (1) Use of excessive transmitting power when lower power will provide communications.
  - (2) Excessive time consumed in tuning and adjusting equipment.

DISTRIBUTION "S" ITEM NO. 25-1 Page 1 of 5



## NORMAL FORM MESSAGE

## THIRD PARTY:

A3USA DE A2USA NR1

M Ø21224Z

FM A2USA NYK

TO MRS ROBERT SMITH
617 MAINE STREET
BALTIMORE MARYLAND

GR8 BT

ARRIVED SAFELY PD EVERYONE IS WELL SGD BOB BT

## MARS ADMINISTRATIVE:

WAR DE AGUSA NR1

R Ø314ØØZ

FM A3USA

TO WAR

CR19 BT

FOR LONG SGD WAYMAN PD REQUEST ONE ZERO COPIES ABLE CHARLIE PETER ONE TWO FOUR BE FURNISHED THIS OFFICE BT

## ABBREVIATED FORM MESSAGE

A3YA DE A3WIQ BT

THIS STATION NOW EQUIPPED WITH TYPEWRITER BT

APPENDIX "A" TO ITEM NO. 25-1 Page 1 of 1

## MARS TO AMATEUR

## Received via MARS

WAR DE AJ5AB NR21

NM Ø81223Z

FM AJ5AB FRENCH MOROCCO

TO MRS JOHN DOE

123 SPRING DRIVE

KANSAS CITY KANSAS

GRIO BT

PACKAGE AND LETTER RECEIVED PD LETTER FOLLOWS PD SGD JACK BT

## Refiled via Amateur

NR31 K4USA CK7 FRENCH MOROCCO VIA MARS 1223 MAY 8

TO MRS JOHN DOE

123 SPRING DRIVE

KANSAS CITY KANSAS BT

PACKAGE AND LETTER RECEIVED X LETTER FOLLOWS BT

JACK BT

APPENDIX "B" TO ITEM NO. 25-1 Page 1 of 2

## Q AND Z SIGNALS

SIGNAL	QUESTION	ANSWER
QRK	What is the readability of my signals (or those of)?	The readability of your signals (or those of) is (1 to 5).
QRM	Are you being interfered with?	I am being interfered with.
QRN	Are you troubled by static?	I am troubled by static.
QRQ	Shall I send faster?	Send faster ( W.P.M.).
QRS	Shall I send more slowly?	Send more slowly (W.P.M.).
QRT	Shall I stop sending?	Stop sending.
QRU	Have you anything for me?	I have nothing for you.
QRV	Are you ready?	I am ready.
QRX	When will you call me again?	I will call you again at hours
QRZ	Who is calling me?	You are being called by (on
QSA	What is the strength of my signals (or those of)?	The strength of your signals (or those of) is (1 to 5).
QSB	Are my signals fading?	Your signals are fading.
QSL	Can you acknowledge receipt.	I am acknowledging receipt.
QSO	Can you communicate with direct or by relay?	I can communicate with direct (or by relay through)
QSP	Will you relay to free of charge?	I will relay to free of charge.
QSV	Shall I send a series of V's on this frequency (or kcs (or mcs))?	Send a series of V's on this frequency (or kcs (or mcs)).
QSY	Shall I change to transmission on another frequency?	Change to transmission on another frequency (or on kcs (or mcs)).
APPENDIX ITEM NO.	25-1	- mcs)).

APPENDIX "C" TO ITEM NO. 25-1 Page 1 of 3



APPENDIX "D" TO ITEM NO. 25-1 Page 1 of 2

## PROSIGNS

PROSIGN MEANING

AA Unknown station

AA All after

AB All before

AR End of transmission

AS Wait

B More to follow

BT Long break

C Correct

F Do not answer

FM Originator's sign

From

Error

G Repeat back

GR(numeral) Group count

GRNC Groups not counted

HM (3 times) Emergency silence sign

II Separative sign

IMI Repeat

INFO Information addressee sign

INT Interrogatory

IX Execute to follow

APPENDIX "D" TO ITEM NO. 25-1 Page 1 of 2

DE

EEEEEEEE



-RESTRICTED

# SIGNAL OPERATION INSTRUCTIONS TRAINING

ITEM NO. 26-1

## RADIOTELEPHONE PROCEDURE

## HEADQUARTERS MARS (ARMY)

WASHINGTON 25, D. C.

Effective: Upon Receipt

## 1. GENERAL

The following basic rules are essential to the operation of an efficient radiotelephone circuit:

- a. Transmissions by radiotelephone will be as short and concise as possible consistent with clearness. Adherence to prescribed procedure is mandatory. Unauthorized departure from or variation in prescribed procedure creates confusion, reduces reliability and speed, and tends to reduce security precautions.
- b. No transmission will be made which has not been authorized by proper authority. MARS members are considered proper authority to originate and transmit traffic within their scope of operation.
  - c. The following practices are forbidden:
    - (1) Violation of radio silence, whenever imposed.
    - (2) Excessive tuning.
    - (3) Use of other than authorized prowords.
    - (4) Profane, indecent or obscene language.
- (5) Exceeding the specific power ratings placed on MARS frequencies.

DISTRIBUTION "S"

ITEM NO. 26-1

Page 1 of 8





APPENDIX "A" TO ITEM NO. 26-1 Page 1 of 2

## PHONETIC ALPHABET

<u>LETTER</u>	SPOKEN AS	LETTER	SPOKEN AS
A	ABLE	N	NAN
B	BAKER	0	OBOE
C	CHARLIE	P	PETER
D	DOG	Q	QUEEN
E	EASY	R	ROGER
F	FOX	S	SUGAR
G	GEORGE	T	TARE
Н	HOW	U	UNCLE
I	ITEM	V	VICTOR
J	JIG	W	WILLIAM
К	KING	X	XRAY
L	LOVE	Y	
M	MIKE	Z	ZEBRA
	PRONUNCIATI	ON OF NUMERALS	
NUMERAL	SPOKEN AS	NUMERAL	SPOKEN AS
0	ZERO	5	FI-YIV
1	WUN	6	SIX
2	- <b>-</b> T00	7	SEVEN
3	THUH-REE	8	EIGHT
4	FO-WER	9	NINER

APPENDIX "A" TO ITEM NO. 26-1 Page 1 of 2





APPENDIX "B" TO Page 2 of 2

		reference is that which follows	
	AW	WORD AFTERThe word of the message to which I have	Λ
ਜ∧ ਸ	<u>ea</u>	WAIT OUTI must pause longer than a few seconds.	Λ
	<u>sa</u>	VAITI must pause for a few seconds.	A
	AA no	NKNOWN STATIONThe identity of the station with whom I am attempting to establish communications to establish communications.	n
		IMEThat which immediately follows is the time group of the message.	L
	DE	MIS IS	L
	ວ	HAT IS CORRECTYou are correct, or what you have trans-	L
	<del></del> .	Reduce speed of transmission.	S
	IMI	AY ACAINRepeat all of your last transmission. Followed by identification data means "Repeat (portion indicated)".	ទ
	ਸ਼	OGERI have received your last transmission satisfactorily.	Ħ
	K	VER	O
OL	TNETALENT		_

Page 2 of 2 Page 2 of 2



#### ITEM NO. 27-1

#### RADIOTELETYPEWRITER OPERATION

### HEADQUARTERS MARS (ARMY)

WASHINGTON 25, D. C.

Effective: Upon Receipt

- 1. The use of 1.1F1 (RATT) emission on MARS frequencies requires prior approval of Chief, MARS (Army). Item No. 22-1 contains a list of the MARS frequencies that are cleared for RATT operation.
- 2. The following RATT schedules have been approved by Chief, MARS (Army):
  - a. Virginia RATT Net: 3497.5 kc 1800-1900Z; 2200-2300Z, Saturday.

0200-0300Z; 1800-1900Z; 2200-2300Z, Sunday.

0200-0300Z, Monday.

6997.5 kc - 2100-2200Z, Saturday.

'0100-0200Z; 2100-2200Z, Sunday.

b. Third Army RATT Net: 6997.5 kc - 0500-06007; 0700-08002, Saturday.

0500-0600Z; 0700-0800Z, Sunday.

 $14405.0 \text{ kc} - 0500-0700Z, daily.}$ 

c. Fifth Army RATT Net: 2360.0 kc - 0100-0200Z, daily.

 $3289.0 \text{ kc} - 0300-0400Z, daily.}$ 

d. Sixth Army RATT Net: 14405.0 kc - 0100-0300Z, daily, (except Tuesday).